Series LVDT-IZAL

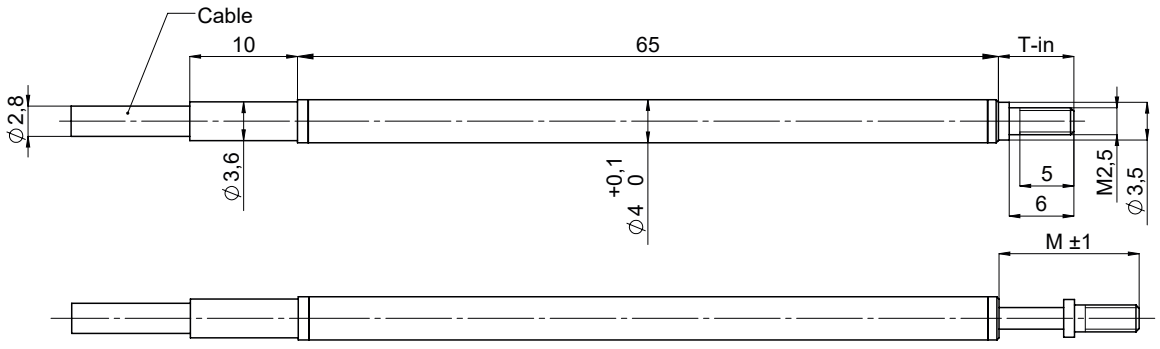
Displacement Sensor

LVDT - Miniature displacement sensor with only 4mm diameter, 70mm body length and lightweight, well suited for use in medical instruments, and others.

we customise sensors

- *Measuring range: 2mm up to 10mm*
- *Protection degree IP65*
- *Housing diameter 4mm*

Dimensions



All dimension in mm

Standard types				*Dimensions* mm	
Type	*Armature*	*Displacement*	*Connection*	**T-in** *Armature inner position*	**M** *Middle of stroke*
IZAL-2-K	*Unguided armature*	±1 (2mm)	*Cable*	12	13
IZAL-5-K		±2,5 (5mm)		10,5	13
IZAL-10-K		±5 (10mm)		7	13

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Electrical Specification				
Displacement	±1 (2)	±2,5 (5)	±5 (10)	mm
Sensitivity	45	45	45	mV/V/mm
Linearity deviation	< ±0,25		< ±0,5	% F.S.
Excitation voltage	3			V RMS
Excitation frequency	40			kHz
Input resistance typ.	120			Ohm
Input impedance typ.	610			Ohm
Output impedance typ.	520			Ohm
Temperature coefficient zero signal	±0,2			% F.S./10K
Calibrated at	3V RMS / 40 kHz RL = 1MOhm			

Mechanical Specification		
Housing material	*Stainless Steel 1.4301*	
Core material	*Nickel-Iron-Alloy / Ferrite*	
Weight core	1,5	g

Environments		
Rated temperature range	-25..+85	°C
Storage temperature range	-40..+85	°C
Degree of protection	IP65	
Impact resistance	20 g/10ms	
Vibration resistance	10g / 2 Hz .. 2 kHz	

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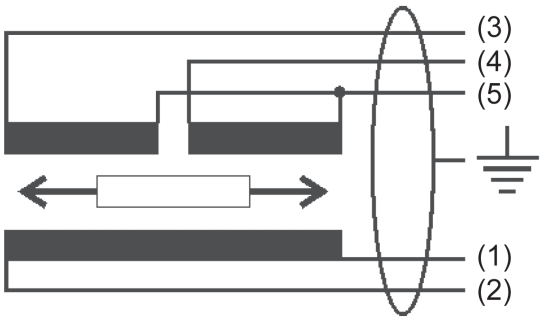
Connection		
Function	*Colour of cable (Cable length 1 meter)*	
Primary 1	*black*	
Primary 2	*blue*	
Secondary 1	*yellow*	
Secondary 2	*green*	
Secondary 1, 2 Centre	*white*	
Shield	*Housing*	

Order code			
Series	*Electrical*	*Operation*	*Displacement*
IZ= Ø 4mm *Standard*	A = AC	L = *Unguided armature*	2 = ±1 5 = ±2,5 10 = ±5
Ordering example: LVDT-IZAL-10			

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Options

- *Extended temperature range*
- *Other cable length on request (standard = 1m)*
- *Protection degree IP65*
- *More options on request*

Electronical Accessories				
Signal conditioner				
Series	**IMA2-LVDT**	**IVM2-LVDT**	**IMK-LVDT**	**IMK-LVDT-OEM**
	DIN Rail Mount	*Circuit board module*	*IP65 housing*	*IP65 housing Customer-adjustable*

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